

DOCUMENT RESUME

ED 309 947

SE 050 781

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TITLE Japanese Technology. LC Science Tracer Bullet.
INSTITUTION Library of Congress, Washington, D.C. National
Referral Center for Science and Technology.
REPORT NO TB-89-2
PUB DATE Apr 89
NOTE 15p.
PUB TYPE Reference Materials - Bibliographies (131)

EDRS PRICE MF01/PC01 Plus Postage.
DESCRIPTORS *Foreign Countries; Higher Education; Literature
Reviews; Reference Materials; Resource Materials;
*Scientific and Technical Information; *Technology
IDENTIFIERS *Japan

ABSTRACT

This is a guide to English-language sources providing information on recent technological developments in Japan. Historical sources are not included. Each description includes the author, title, place of publication, publisher, publication date, total number of pages and call number. Sections included are: (1) "Introductory Texts"; (2) "Subject Headings"; (3) "General Texts"; (4) "Additional Titles"; (5) "Translated Titles"; (6) "Bibliographies"; (7) "Conference Proceedings"; (8) "Government Publications"; (9) "Abstracting and Indexing Services"; (10) "Journals"; (11) "Representative Journal Articles"; (12) "Technical Reports"; (13) "Selected Technical Reports"; (14) "Selected Materials"; and (15) "Additional Sources of Information." (YP)

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ISSN 0090-5232

JAPANESE TECHNOLOGY Compiled by Hisako Halasz

TB 89-2

April 1989

SCOPE: This is a guide to English-language sources providing information on recent technological developments in Japan. Historical sources are not included. It complements and partially updates Japanese Science and Technology (TB 84-3). Unlike TB 84-3, however, science is covered here only as it is applied in technical areas. Not intended to be a comprehensive bibliography, this guide is designed--as the name of the series implies--to put the reader "on target."

INTRODUCTORY TEXTS

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Cutler, Robert S. Impressions, observations and comments on science and technology in Japan. Tokyo, The University of Tokyo, May 1987. 14 p. PB87-235743**

Lynn, Leonard. Japanese research and technology policy. Science, v. 233, July 18, 1986: 1132, 1203. Q1.S5

SUBJECT HEADINGS+ used by the Library of Congress, under which books on Japanese technology that emphasize the geographic aspect can be located in most card, book, and online catalogs, include the following:

TECHNOLOGY--JAPAN (Highly relevant)

See also particular technical headings further subdivided by place, e.g., AUTOMATION--JAPAN; BIOTECHNOLOGY--JAPAN; ELECTRONICS--JAPAN; HIGH TECHNOLOGY--JAPAN; TELECOMMUNICATION--JAPAN

*Available in reference collection, Science Reading Room

**Available in microform collection, Science Reading Room

+For works which are assigned subject headings that are not subdivided by country, yet include material of interest to those studying Japanese technology/engineering, no special subject heading search is feasible other than through topical subject headings. In such a case, the author's name or, often, the place of publication, e.g., Tokyo, may give some indication as to the national origin of the work.

RESEARCH, INDUSTRIAL--JAPAN (Relevant)

See also technical topics further subdivided by RESEARCH--JAPAN, e.g., ENGINEERING--RESEARCH--JAPAN; INTEGRATED CIRCUITS--RESEARCH--JAPAN TECHNOLOGICAL INNOVATIONS--JAPAN (Relevant)

See also specific technical and industry headings further subdivided by JAPAN--TECHNOLOGICAL INNOVATIONS, e.g., AUTOMOBILES--JAPAN--TECHNOLOGICAL INNOVATIONS; COMPUTER INDUSTRY--JAPAN--TECHNOLOGICAL INNOVATIONS; HIGH TECHNOLOGY INDUSTRIES--JAPAN--TECHNOLOGICAL INNOVATIONS

TECHNOLOGY AND STATE--JAPAN (Relevant)

See also specific technical and industry headings further subdivided by GOVERNMENT POLICY--JAPAN, e.g., HIGH TECHNOLOGY INDUSTRIES--GOVERNMENT POLICY--JAPAN; NUCLEAR ENERGY--GOVERNMENT POLICY--JAPAN; TECHNOLOGICAL INNOVATIONS--GOVERNMENT POLICY--JAPAN

TECHNOLOGY TRANSFER--JAPAN (Relevant)

INDUSTRY AND STATE--JAPAN (Related)

JAPAN--INDUSTRIES (Related)

See also specific industry headings further subdivided by JAPAN, e.g., BIOTECHNOLOGY INDUSTRIES--JAPAN; HIGH TECHNOLOGY INDUSTRIES--JAPAN; SEMICONDUCTOR INDUSTRY--JAPAN

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Q127.J3A53 1984*

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T27.J3G36 1988

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HC465.H53H53 1985

Japan science & technology outlook: based on Kagakugijutsu hakusho, a white paper of the Science and Technology Agency. Tokyo, Fuji Corp., c1983. 246 p.
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Japanese technology assessment: computer science, opto- and microelectronics, mechatronics, biotechnology. By J. Albus and others for Science Applications International Corp. Park Ridge, N.J., Noyes Data Corp., 1986. 597 p.
T27.J3J39 1986*

Studies originally prepared by Science Applications International Corporation for the U.S. Dept. of Commerce, 1984-1985.

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Sato, Tateo, and Seppo Raevuori. Japan's technology trade. Helsinki, Teknologian kehittämiskeskus, Valtion painatuskeskus, 1987. 32 p. (Teollisuussihteeriraportti, 11)
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Tahara, Kenji. Postwar manufacturing technology in Japan: a shift from "borrowed" toward "independent." Tokyo, International Development Center of Japan, 1987. 28 p. (IDCJ working paper series, no. 38)
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U.S.-Japan Science Policy Seminar, 3rd, Honolulu, Hawaii, 1984. Transforming scientific ideas into innovations: science policies in the United States and Japan; proceedings of the third U.S.-Japan Science Policy Seminar, February 19-22, 1984, Honolulu, U.S.A. Edited by Bodo Bartocha and Sogo Okamura. Tokyo, Japan Society for the Promotion of Science, 1985. 238 p.

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Defects and properties of semiconductors: defect engineering. Edited by J. Chikawa, K. Sumino, and K. Wada. Tokyo, KTK Scientific; Dordrecht, Boston, D. Reidel; Norwell, Mass., distributed in the U.S.A. and Canada by Kluwer Academic, c1987. 261 p. QC611.6.D4D4184 1987

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Contents: Japan and the world economy.--Mechatronics and Japanese
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 management.--The prospects for mechatronics applications in office
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Bibliography: p. 236-237.

ABSTRACTING AND INDEXING SERVICES that index relevant journal articles and other literature are listed below. Some terms are suggested as aids in searching.

Applied Science & Technology Index (1913-) Z7913.I7* and on CD-ROM reader (10/83-)

See: Technology--Japan

Japan--Industries and Resources

Subject headings of interest; only major headings are subdivided by Japan

Note: Consult reference librarian for location of abstracting and indexing services in the Science Reading Room

General Science Index (1978-) Z7401.G46*

See: Technology--Japan

Subject headings of interest; only major headings are subdivided by Japan

Japanese Technical Abstracts (1986-1988) T1.J38*

See: Subject headings of interest

Magazine Index (1980-) Available on LC computer terminals, COM or CD-ROM reader

See: Technology--Japan

Subject headings of interest subdivided by Japan

Readers' Guide to Periodical Literature (1900-) AI3.R45

See: Japan (all the entries related to Japan are listed)

The following abstracting and indexing services, while containing substantial numbers of articles from Japan, do not indicate the geographical origin of a particular work in their subject indexes; exceptions are headings beginning with Japan or Japanese. However, the names of authors, organizations, and journals may indicate as to the national origin of the work.

Computer & Control Abstracts (1966-) QA76.C548*

Electrical & Electronics Abstracts (1898-) Z5833.E37*

Engineering Index (1884-) Z5851.E62*

INIS Atomindex (1970-) Z7144.N8I18*

International Aerospace Abstracts (1961-) TL500.I57*

Metals Abstracts (1968-) TN1.M5153*

Scientific and Technical Aerospace Reports (1963-) TL500.S35*

JOURNALS that often contain articles on Japanese technology include publications of professional societies, research institutes, universities, and manufacturing companies, as well as commercial journals. Examples in several categories are presented.

Company Publications

Fuji Electric Review TK1.F88

Fujitsu Scientific and Technical Journal TK1.F9

Hitachi Review T1.H55

NEC Research and Development TK1.N14

Nihon Kokan Kabushiki Kaisha. Technical Report: Overseas TS300.N56

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Newsletters

Ceramic Industry Japan uncataloged in N&CPR

Dempa Digest uncataloged in N&CPR

EDP Japan Report uncataloged in N&CPR

Japan High Tech Review uncataloged in N&CPR

Nikkei High Tech Report uncataloged in N&CPR

Publications by professional societies, research institutes, or educational institutions

Search under specific titles or, if the title is of a general nature, e.g., journal, bulletin, memoir, report, it may be under the name of the organization.

Review Journals

Chemical Economy & Engineering Review: CEER TPl.C1152
Japan Annual Reviews in Electronics, Computers & Telecommunications
Amorphous Semiconductor Technologies & Devices TK7871.99.A45A47
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Electrical Engineering in Japan TK4.D443
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 Part 1. Communications TK5101.A1E47
 Part 2. Electronics TK7800.E438593
 Part 3. Fundamental Electronic Science This journal will become available in LC's general collections when processing has been completed.
Heat Transfer: Japanese Research QC320.H374
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TECHNICAL REPORTS and other types of literature are indexed in the following guides:

Government Reports Announcements & Index (1946-) Z7916.G78*

See: Technology--Japan

Subject headings of interest; only major headings are subdivided by Japan

Monthly Catalog of United States Government Publications (1895-) Z1233.A18*

See: Japan and keywords beginning with Japanese

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